

I CLAIM AS MY INVENTION:

1. A method for operating a magnetic resonance apparatus for functional imaging, comprising the steps of:

obtaining a plurality of images of a subject in a sequence and alternately

obtaining the plurality of images within said sequence with stimulation of said subject and without stimulation of said subject; and

storing each image in said plurality of images together with information indicating

whether that image was registered with or without stimulation of said subject and with at least one image-related stimulation value, and with at least one image-related evaluation correlation value.

2. A method as claimed in claim 1 comprising selecting said image-related stimulation value from the group consisting of information describing a type of said stimulation, information describing an intensity of said stimulation, information describing a duration of said stimulation, and information describing a point in time of said stimulation.

3. A method as claimed in claim 1 wherein said at least one image-related stimulation value comprises information describing an intensity of said stimulation, said information being selected from the group consisting of a brightness of an optical stimulation source which produces said stimulation, a volume of an acoustic stimulation source which produces said stimulation, a pressure of a pressure-exerting stimulation source which produces said stimulation, a pulse intensity of an electrical stimulation source which produces said stimulation, and an operating parameter of a stimulation source that produces said stimulation.

4. A method as claimed in claim 1 wherein said image-related evaluation correlation value comprises a point on a time-related correlation curve coinciding with a point in time of the acquisition of the image stored with the image-related evaluation correlation value.

5. A method as claimed in claim 1 comprising the additional step of evaluating said image in combination with said information, and wherein said plurality of images includes at least some images which should be ignored in said evaluation, and wherein said information further comprises an identification of whether the image stored with the information is an image which should be ignored in said evaluation.

6. A magnetic resonance apparatus for functional imaging, comprising:
a magnetic resonance scanner with a sensory stimulator obtaining a plurality of images of a subject in a sequence and alternately obtaining the plurality of images within said sequence with sensory stimulation of said subject and without sensory stimulation of said subject; and
a memory storing each image in said plurality of images together with information indicating whether that image was registered with or without stimulation of said subject and with at least one image-related stimulation value, and with at least one image-related evaluation correlation value.

7. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said image-related stimulation value is a value selected from the group consisting of information describing a type of said stimulation, information describing an intensity of said stimulation, information describing a duration of said stimulation, and information describing a point in time of said stimulation.

8. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said at least one image-related stimulation value comprises information describing an intensity of said sensory stimulation by said sensory stimulator.

9. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said sensory stimulator is an optical stimulation source, and wherein said at least one image-related stimulation value represents a brightness of light emitted by said optical stimulation source.

10. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said sensory stimulator is an acoustic stimulation source, and wherein said at least one image-related stimulation value represents a volume of sound emitted by said acoustic stimulation source.

11. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said sensory stimulator is a pressure-exerting stimulation source, and wherein said at least one image-related stimulation value represents a pressure exerted by said pressure-exerting stimulation source.

12. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said sensory stimulator is an electrical stimulation source, and wherein said at least one image-related stimulation value represents a pulse intensity of an electrical pulse emitted by said electrical stimulation source.

13. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said sensory stimulator has an operating parameter associated therewith, and wherein said at least one image-related stimulation value represents said operating parameter.

14. A magnetic resonance apparatus for functional imaging as claimed in claim 6 wherein said image-related evaluation correlation value comprises a point on a time-related correlation curve coinciding with a point in time of the acquisition of the image stored with the image-related evaluation correlation value.

15. A magnetic resonance apparatus for functional imaging as claimed in claim 6 further comprising a processor evaluating said image in combination with said information, and wherein said plurality of images includes at least some images which should be ignored in said evaluation, and wherein said information further comprises an identification of whether the image stored with the information is an image which should be ignored by said processor in said evaluation.